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Appl. No.: 10/824,234

Amdt. Dated May 2, 2006

Response to Office Action Mailed January 5, 2006

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in this application.

1. (Currently Amended) An ~~electronically~~ electronic surveying apparatus, comprising:

a storing portion for storing ~~positional-information data~~ of a surveying apparatus body and design data as construction-related data;

an angle-measuring portion for ~~electronically measuring an angle between a reference direction and~~ an aimed direction relative to a reference direction;

an arithmetic processing portion for obtaining a model of an expected arrangement at completion of an object which is expected to be seen from a position of the surveying apparatus body in the aimed direction by calculation, based on the ~~angle~~ aimed direction measured by the angle-measuring portion, ~~and said design data and the positional data of the surveying apparatus body~~; and

a displaying portion for displaying said model of the expected arrangement at completion of the object obtained by the calculation with the arithmetic processing portion.

2. (Currently Amended) The ~~electronically~~ electronic surveying apparatus according to claim 1, further comprising a telescope portion for viewing an object to be

measured which corresponds to said expected arrangement at completion of the object, and an imaging portion for imaging the measurement object viewed by the telescope portion,

said aimed direction being a viewing direction, wherein

said displaying portion is capable of displaying the measurement object imaged by said imaging portion as a real image of the measurement object, and

said arithmetic processing portion displays said model of the expected arrangement at completion of the object on the displaying portion, directly or by overlapping said model of the expected arrangement at completion of the object with said real image.

3. (Currently Amended) An ~~electronically~~ electronic surveying apparatus, comprising:

a telescope portion for viewing an object to be measured;

an imaging portion for imaging the measurement object in an aimed direction viewed by the telescope portion;

a displaying portion ~~capable of~~ for displaying the measurement object imaged by said imaging portion as a real image of the measurement object;

a storing portion for storing positional data of a surveying apparatus body and design data as construction-related data ~~which corresponds to said measurement object;~~

an angle-measuring portion for ~~electronically~~ measuring an angle between the aimed direction relative to a reference direction; ~~and a viewing direction;~~ and

an arithmetic processing portion for obtaining a model of an expected arrangement at completion of an object which is expected to be seen from a position of the surveying apparatus body in the viewing aimed direction by calculation, based on the angle aimed direction measured by the angle-measuring portion, and said design data and the positional data of the surveying apparatus body; and ~~wherein~~

a displaying portion configured to display said model of the expected arrangement at completion of the object obtained by the calculation with the arithmetic processing portion is configured to be displayed on said displaying portion, directly or by being overlapped with said real image.

4. (Currently Amended) The ~~electronically~~ electronic surveying apparatus according to claim 1, wherein said arithmetic processing portion displays, according to a change in the aimed direction, said model of the expected arrangement at completion of the object relative to the changed aimed direction on the displaying portion based on detection of said angle-measuring portion ~~according to a change in said aimed direction.~~

5. (Cancelled).

6. (Currently Amended) The ~~electronically~~ electronic surveying apparatus according to claim 1, wherein said arithmetic processing portion calculates, based on the positional data of the surveying apparatus body including height thereof, the aimed direction which the angle-measuring portion has detected as a horizontal angle and a vertical angle, and the design data, said model of the expected arrangement at completion of the object expected to be seen from the position including the height of the surveying apparatus body based on ~~positional information of the surveying apparatus body including height thereof, the angle between the reference direction and the aimed direction which said angle-measuring portion has detected as a horizontal angle and a vertical angle, and said design data,~~ and displays said calculated model of the expected arrangement at completion of the object on the displaying portion.

7. (Cancelled).

8. (Currently Amended) The ~~electronically~~ electronic surveying apparatus according to claim 1, further comprising a ranging portion for ranging a distance from the surveying apparatus body to said measurement object,

wherein said arithmetic processing portion calculates said model of the expected arrangement at completion of the object based on the distance ranged by said ranging portion, the aimed direction measured by the angle-measuring portion, said design data and the positional data of the surveying apparatus body and said angle.

9. (Cancelled).

10. (Currently Amended) The ~~electronically~~ electronic surveying apparatus according to claim 1, wherein said arithmetic processing portion zooms said model of the expected arrangement at completion of the object and displays the zoomed model of the expected arrangement at completion of the object on the displaying portion according to magnification when the magnification of the telescope portion is variable.

11. (Cancelled).

12. (Currently Amended) The ~~electronically~~ electronic surveying apparatus according to claim 1, wherein said arithmetic processing portion calculates an allowable range with respect to said model of the expected arrangement at completion of the object based on said design data, and displays the allowable range on said displaying portion by overlapping the allowable range with said model of the expected arrangement at completion of the object.

13. (Cancelled).

14. (Currently Amended) The ~~electronically~~ electronic surveying apparatus according to claim 3, wherein said arithmetic processing portion displays, according to a change in the aimed direction, said model of the expected arrangement at completion of the object relative to the changed aimed direction on the displaying portion based on detection of said angle-measuring portion ~~according to a change in said viewing direction~~.

15. (Currently Amended) The ~~electronically~~ electronic surveying apparatus according to claim 3, wherein said arithmetic processing portion calculates, based on the positional data of the surveying apparatus body including height thereof, the aimed direction which the angle-measuring portion has detected as a horizontal angle and a vertical angle, and the design data, said model of the expected arrangement at completion of the object expected to be seen from the position including the height of the surveying apparatus body based on positional information of a surveying apparatus body including height thereof, ~~the angle between the reference direction and the viewing direction which said angle measuring portion has detected as a horizontal angle and a vertical angle~~, and said design data, and displays said calculated model of the expected arrangement at completion of the object on the displaying portion.

16. (Currently Amended) The ~~electronically~~ electronic surveying apparatus according to claim 3, further comprising a ranging portion for ranging a distance to said measurement object,

wherein said arithmetic processing portion calculates said model of the expected arrangement at completion of the object based on the distance ranged by said ranging portion, the aimed direction measured by the angle-measuring portion, said design data and the positional data of the surveying apparatus body ~~and said angle~~.

17. (Currently Amended) The ~~electronically~~ electronic surveying apparatus according to claim 3, wherein said arithmetic processing portion zooms said model of the expected arrangement at completion of the object and displays the zoomed model of the expected arrangement at completion of the object on the displaying portion according to magnification when the magnification of the telescope portion is variable.

18. (Currently Amended) The ~~electronically~~ electronic surveying apparatus according to claim 3, wherein said arithmetic processing portion calculates an allowable range with respect to said model of the expected arrangement at completion of the object based on said design data, and displays the allowable range on said displaying portion by overlapping the allowable range with said model of the expected arrangement at completion of the object.